

L 16882-65 EWT(d)/EWT(m)/EWP(w)/EWA(d)/EWP(r)/EWP(k)/EWA(h) Pf-4 Peb AEDC(a)  
ACCESSION NR: AR4045235 EM S/0124/64/000/007/V008/V008

SOURCE: Ref. zh. Mekhanika, Abs. 7V56

AUTHOR: Sheremet'yev, M. P.; Pelekh, B. L. B

TITLE: The problem of variational principles in the theory of shells

CITED SOURCE: Sb. Teor. i prykl. matem. Vysh. 2, L'viv, L'vivsk. un-t, 1963, 68-86

TOPIC TAGS: shell, shell theory, Lagrange principle, Castigliano principle, basic functional

TRANSLATION: Equations expressing the Lagrange and Castigliano variational principles in the theory of shells are presented. The Castigliano principle is derived from the so-called basic functional. By means of the latter, other variational principles (including the principle of possible shifts) are obtained in the form of particular cases. All the differential equations and boundary conditions of the theory of shells are regarded as Euler equations, written for the basic functional. All operations correspond to a case in which the Kirchhoff - Lyav hypothesis regarding the retention of the normal element is not completely fulfilled. Non-orthogonality of the fibers with respect to the midsurface after  
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ACCESSION NR: AR4045235

deformation is permitted, these fibers having been normal to the midsurface before deformation. G. Ya. Amosov

SUB CODE: ME, AS

ENCL: 00

Card 2/2

ACCESSION NR: AP4043523

S/0258/64/004/003/0504/0509

AUTHORS: Shoremet'yev, M. P. (L'vov); Pelekh, B. L. (L'vov)

TITLE: On the construction of refined plate theory

SOURCE: Inzhenernyy zhurnal, v. 4, no. 3, 1964, 504-509

TOPIC TAGS: plate theory, boundary condition, normal stress, displacement field, stress tensor, deformation energy, rotation angle, symmetric deformation, circular plate, concentrated load, cantilever beam

ABSTRACT: A general theory of plates is derived which allows four boundary conditions to be satisfied on the plane surface  $z = \pm h$ . These conditions are general and can be static, geometric, or displacement type conditions. The only assumptions made are: 1) the deformation component  $\epsilon_{zz} = 0$ ; and 2) the normal stress  $\sigma_{zz}$  is small compared to other stresses. The plate surface is divided into an x,y coordinate grid and the displacement field represented by

$$u = u^{(0)} + z\gamma_3^{(0)} + z^2(u^{(T)} + z\gamma_3^{(T)}), v = v^{(0)} + z\gamma_4^{(0)} + z^2(v^{(T)} + z\gamma_4^{(T)}).$$

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This equation is subsequently discussed in four specific problems: 1) fixed circular plate under uniformly distributed load; 2) fixed plate with concentrated load at the center; 3) hinged beam with uniform load; and 4) deflection of a cantilever beam with a concentrated load at its end. Orig. art. has: 29 equations.

ASSOCIATION: none

ENCL: 00

SUBMITTED: 12Jul63

OTHER: 000

SUB CODE: ME

NO REF SOV: 006

Card 3/3

MAKSUMOV, S.S.; SARSIS'YANTS, S.L.; ~~SHREMET'YEV~~, N.N.; CHICHERIN, P.I.;  
ZAPROMETOVA, L.V.; ZHURAVLEV~~A~~, N.A.

Virusological characteristics of the outbreak of poliomyelitis in  
Tashkent in 1959. Vop. virus. 7 no.2;239 Mr-Ap '62. (MIRA 15:5)

1. Tashkentskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.  
(TASHKENT--POLIOMYELITIS)

SHEREMET'YEV, N.N.

Dynamics of the isolation of poliomyelitis vaccine strains from  
flies following vaccination. Zhur. mikrobiol., epid. i immun.  
(MIRA 18:5)  
41 no.10:102-106 '64.

1. Tashkentskiy institut vaktsin i syvorotok.

SHEREMET'YEV, N. V.

Increasing the operational efficiency of snow removing  
machinery. Put' i put. khoz. 7 no.3:18-19 '63.  
(MIRA 16:4)

1. Zamestitel' nachal'nika Murmanskoj distantsii Oktyabr'skoy  
dorogi.

(Railroads—Snow plows)

ALEKSANDROV, G.P.; DEMKIV, O.T.; SHEVCHENKO, Yu.V.; SHEREMET'YEV, S.Kh.

Flame-photometric determination of strontium in a methane-air flame  
using the SF-5 spectrophotometer. Ukr.khim.zhur. 29 no.6:623-627  
'63. (MIRA 16:9)

1. Institut geologii goryuchikh iskopayemykh AN UkrSSR.  
(Strontium--Spectra) (Flame photometry)

CHEREMET'YEV, D. N.

Flame photometric determination of potassium in molasses stillage.  
Prom. i spirit. prom. 30 no. 3:23-24 '64. (MIRA 18:2)

1. L'vovskiy sel'skiy oblastnoy komitet Kommunisticheskoy parti  
Ukrainy (for Chupik). 2. Institut geologii goryuchikh iskopayemykh  
AN UkrSSR (for Cheremet'yev).

ALEKSANDROV, G.P. [deceased]; SHEREMET'YEV, S. Kh.; CHUDKOVSKAYA, R. Ya.

Flame-photometric determination of lithium in natural potassium  
salts. Ukr. khim. zhur. 31 no. 11:1197-1200 '65 (MIRA 19:1)

1. Institut geologii i geokhimii goryuchikh iskopayemykh AN  
UkrSSR.

SHEREMET'YEV, V. A., Cand Tech Sci -- (diss) "Methods of Measurement and Recording of the Angle of Inclination of the Rotor of Synchronous Machines." L'vov, 1957. 16 pp with ill<sup>tions</sup>(Min of Higher Education Ukr SSR, L'vov Polytechnic Inst), 150 copies. List of author's works at ~~the~~ end of ~~the~~ text (15 titles). (KL, 47-57, 89)

SOV/1.C-1-1-4/22

AUTHOR: Karandeyev, K.B., Corresponding Member Doctor of Technical Sciences; Vishenchuk, I.M., Senior Scientific Collaborator; Sheremet'yev, V.A., Senior Engineer

TITLE: An electric Phase Meter for Measuring and Oscillographing the Rotor Coasting Angle of Synchronous Machines (Elektronnyy fazometr dlya izmereniya i otsillografovaniya ugla vybega rotora sinkhronnykh mashin)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Priborostroyeniye, 1958, Nr 1, pp 22-27 (USSR)

ABSTRACT: The paper proposes a circuit for a phase meter to measure and oscillograph with little phase angle lag, which is essentially free from the normal defects. The lag in this circuit is 0.2 m/sec, it narrows the measuring limits of the angle to 3-4 electric degrees. The semi-variable resistances of 100 k ohm in the control grid circuit of the phantastron generator is for correcting sensitivity and makes it possible to

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SOV/146-1-1-4/22

An Electric Phase Meter for Measuring and Oscillographing the rotor  
Coasting Angle of Synchronous Machines

of the zero point at the balance amplifier. Technical characteristics of the phase meter are: 3 limits for angle measurement  $\pm 180^\circ$ ,  $\pm 90^\circ$ ,  $\pm 45^\circ$ . Indicating instrument is a microammeter for  $\pm 50$  micro-amps. Fixing the angle on the oscilloscope takes 0.02 secs, delay in oscillographing is practically zero. The phase meter weighs approx. 6 kg. Power consumption is not over 50 watts. The device is fed with 110 or 220 volts, at 50 cps. The phase meter measures and oscillographs the rotor coasting angle in synchronous machines within limits of  $\pm 180$  electric degrees with an accuracy of up to  $0.5^\circ$  plus 1%. The phase meter works harmoniously with the electromagnetic phase transmitter, which transmits the electrodynamic power, and voltage in pulse form. There are 1 circuit diagram, 6 diagrams, 1 table and 5 Soviet references.

Card 3/4

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549110019-0

VISHENCHUK, I.M.; KOTYUK, A.F.; SHEREMET'YEV, V.A.

Electronic phase-measuring instruments used in industrial  
frequency circuits. Izm.tekh. no.2:58-59 Mr-Ap '58. (MIRA 11:3)  
(Electronic instruments)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549110019-0"

VISHENCHUK, I.M., inzh.; KOTYUK, A.F., inzh.; SHEREMET'YEV, V.A., inzh.

Device for measuring and oscillographing the runaway angle of  
synchronous-machine rotors. Elek. sta. 29 no.7:43-45 Jl '58.  
(MIRA 11:10)

(Electric machinery, Synchronous--Measurement)

SHEREMET'YEV, V.A., inzh.

Effect of remelting in a vacuum arc furnace on the properties of heat-resistant nickel-base alloys. Izv.vys. ucheb.zav.; chern.met. 2 no.10:43-48 0 '59.  
(MIRA 13:3)

1. Institut metallurgii im.A.A.Baykova. Rekomendovano kollokviumom laboratorii No.2 Instituta metallurgii im.A.A. Baykova.  
(Heat-resistant alloys) (Nickel alloys)  
(Vacuum metallurgy)

SHEREMET'YEV, V.A.

Phase measuring device for controlling the rotor lead angle in  
synchronous machines. Avtom.kont.i izm.tekh. no.4:109-115  
'60. (MIRA 13:8)  
(Electric machinery, Synchronous--Regulation)

SHEREMET'YEV, V.A.; BAKANNIK, V.P.

Investigation of certain corrosion inhibitors as used in petroleum-production equipment. Izv.vys.ucheb.zav.; neft' i gaz 6 no. 12:121-123 '63. (MIRA 17:5)

1. Sevastopol'skiy filial Odesskogo politekhnicheskogo instituta.

SHEREMET'YEV, V.A.; BARANNIK, V.P.

New inhibitor for slowing down the corrosion of oil-well equipment.  
Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform.  
(MIRA 16:10)  
16 no.8+21-22 '63.

BARANNIK, V.P.; ANDREYEV, L.N.; SHEREMET'YEV, V.A.

Preventing the entrainment of chromic anhydride during chromium plating. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch. i tekhn.inform. 16 no.10:13-16 '63. (MIRA 16:11)

SHEREMET'YEV, V.A.; BAKANNIK, V.P.

Corrosion inhibition of petroleum production equipment. Neft. i  
gaz. prom. no.1:65-66 Ja-Mr '64. (MIRA 18/2)

BARANNIK, V.P., doktor khim. nauk; SHEREMET'YEVA, A.I., inzh.;  
SHEREMET'YEVA, V.A., inzh.

Reducing the consumption of chromic anhydride in electrolytic  
chromium plating. Mashinostroenie no.4:76-78 J1-Ag '64.  
(MIRA 17:10)

Scallop MY 1, V.S., And Koch Lein (V.L.) "Study of the performance of the ~~new~~ <sup>new</sup> combustion furnace on wood waste product of leather and wood (recycling)." Len, 1984. 25 pp with graphs (Min of Higher Education. Polytech Inst i. N.I. Tolstiy), 100 copies (U.25-51,11)

- 28 -

SHEREMET'YEV, V.S.

Basementless furnace units for steam power plants of logging enterprises. Trudy LTA no.83:177-201 '59.  
(MIRA 13:4)  
(Steam power plants)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549110019-0

MEMO REC'D. 12-12-67, 10:00 AM, FROM: N.Y.H.A.V., W.H.

RE: REQUEST OF TELLING THE FBI-DOJ TO DO ITSELF. COMM. INST. GPO.  
1004 AM EST. REC'D. 12-12-67, 10:00 AM. NMRA 12-12-67

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549110019-0"

NOVIKOV, V.A.; IELYUKH, V.G.; SHIFRELLIYEV, Ya.V.

Problems of using diesel hammers for borehole drilling in  
strip mining. Trudy Inst. gorf. dela AN Kazakh. SSR 17:40-  
49 '65. (MIRA 18:9)

NOVIKOV, V.A., SHEREMETYEV, Yu.V.; LELYUKH, V.G.

The KSO-25 rig and results of its use in the Dzhezkazgan mine.

Vest. AN Kazakh. SSR 27 no.7:72-76 Ju '65.

(MIRA 18:8)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549110019-0

CH 1116 1200: 1600-1700, 1996.

Results of visual surveying ring rigs at the Kazakhstan line. Ready  
Inst. per. 1600-1700, 1996. (ML) 17(7)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549110019-0"

SHEREMET' YEV.

Comparative evaluation of the performance of PK-35B and KTSM-  
multiple stroke rock drills in Dzhezkazgan Mines. Izv. AN Kazakh.  
SSR. Ser. gor dela no.1:65-68 '60. (MIRA 13:10)  
(Dzhezkazgan region--Mining engineering)  
(Rock drills)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549110019-0

SHEREMET'YEV, Ye.V.

Testing the MK-35V fast percussion core drill. Vest.AN Kazakh.SSR  
16 no.11:106-107 N '60. (MIRA 13:12)  
(Boring machinery)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549110019-0"

SHEREMET'YEV, Ye.V.

Modern drilling machines manufactured by West German and Swedish firms. Izv. Ak Kazakh SSR Ser. gor. dela no. 2:114-120 '61.  
(MIRA 15:2)  
(Germany--Boring machinery) (Sweden--Boring machinery)

SHEREMET'YEV, Yu., inzh.

Ships are waiting for them... Prof.-tekhn.oibr. 22 no.11:12  
U '65. (MIRA 18:12)

1. Uchebno-metodicheskiy otdel po spetsial'nostyam transporta  
i svyazi Gosudarstvennogo komiteta po professional'no-  
tekhnicheskому образованию.

SEYFUL'-MULYUKOV, R.B.; TOLSTOY, N.S., SHUPPENTIN, V. Yu.F.

Structural manifestation of the main elements in the Mesozoic sediments in the Volga Valley portion of Volgograd Province.  
Neftegaz.geol.i geofiz. no.9:9-14 (1981) (MIRA 17:3)

I. Nauchno-issledovatel'skaya laboratoriya geologicheskikh krigeriyev otseki perspektiv neftegazosnositeli Gosudarstvennogo geologicheskogo komiteta SSSR.

DOLITSKIY, V.A.; KUCHERUK, Ye.V.; TOLSTOY, N.S.; SHEREMET'YEV, Yu.F.

Structural map of the northeastern part of Volgograd Province.  
Izv.vys.ucheb.zav.; geol. i razv. 6 no. 11:143-148 N 163.  
(MIRA 18:2)

I. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. I.M.Gubkina i Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

BARANNIK, V.P., doktor khim. nauk; SHEREMET'YEVA, A.I., inzh.;  
SHEREMET'YEV, V.A., inzh.

Reducing the consumption of chromic anhydride in electrolytic  
chromium plating. Mashinostroenie no.4:76-78 Jl-Ag '64.  
(MIRA 17:10)

MIKHAILOV, Ilya, - Prof., Dr. Sci., Univ. Minsk, Belarus

Kinetics of decomposition of nitro-oxalate formation at high temperatures.  
Ukr. Khim. Zhurn. (Ukr. J. Chem. Eng.)

(NICA 17-8)

1. National Scientific Center of Technical University Khar'kov

USSR/Microbiology - General Microbiology.  
Variability and Heredity.

F

Abs Jour : Ref Zhur Biol., No 22, 1958, 99273

Author : Sheremet'yeva, L.G.

Inst : Minsk Medical Institute

Title : Variability of Dysentery Bacilli in the Immune Organism  
under the Influence of Antibiotics.

Orig Pub : Sb. nauchn. rabot. Minskij med. in-t, 1957, 18, 43-55

Abstract : By passing dysentery bacteria of Flexner's type through  
the organism of immune mice, coccal variants were obtained,  
typical in biochemical properties, with a lowered  
agglutinability and virulence, but retaining immunogenic  
properties. Passing through bile and slanting agar pro-  
duced a reversion to the previous rod-shaped form.  
Under the action of streptomycin, biomycin, and

Card 1/2

- 13 -

SHEREVEVVA, L.G., Cand Med Sci -- (diss) "Experimental  
variability of ~~the~~ dysentery bacilli." Minsk, 1957,  
15 pp. (Minsk State Med Inst) 260 copies (FL, 24-57, 136)

- 136 -

RAKHMANOV, V.A.; LINDENBRATEN, L.D.; ROMANENKO, G.F.; KAZANTSEVA, N.S.;  
SHEREMET'YEVA, L.G.

Skin changes in radiation exposure regions at late dates after  
radio- and gammatherapy of malignant tumors. Med. rad. 8  
no.10:43-47 O '63. (MIRA 17:6)

1. Iz kafedry rentgenologii i radiologii (zav. - prof. L.D.  
Lindenbraten) i kafedry kozhnykh bolezney (zav. - chlen-  
korrespondent AMN SSSR prof. V.A. Rakhmanov) I-go Moskovskogo  
ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

ZADOV, Aleksandr Grigor'yevich; ANISIMOV, Aleksandr Mikhaylovich; BAZLOV,  
Mikhail Nikolayevich; BRAGIN, Viktor Alekseyevich; GUDKOV, Boris  
Aleksandrovich, KOROTKOV, Sergey Tikhonovich, SHTEYNER, Samuil  
Iovelevich; SHEREMET'YEVA, L.P., vedushchiy red.; TROFIMOV, A.V.,  
tekhn.red.

[Petroleum industry in Krasnodar Territory] Neftianaya promyshlennost'  
Krasnodarskogo kraia. Moskva, Gos.sauchno-tekhn.izd-vo neft.  
i gorno-toplivnoi lit-ry, 1957. 69 p. (MIRA 11:2)  
(Krasnodar Territory--Petroleum industry)

L 9898-63  
ACCESSION NR: AP3000412

EWP(q)/BDS/EWT(m)--AFFTC--JD/WB

S/0076/63/037/005/1037/1042

AUTHOR: Tsvetnova, R. V.; Dyatkina, S. L.; Sheremet'yeva, S. N.; Kel'n, A. R.;  
Krasil'shchikov, A. I.

58

TITLE: Corrosion and passivity of titanium in sulfuric acid solution 57

SOURCE: AN SSSR. Zhurnal fizicheskoy khimii, v. 37, no. 5, 1963, 1037-1042

TOPIC TAGS: corrosion, passivity of titanium, electrochemical behavior of Ti; passivating adsorption layer

ABSTRACT: The electrochemical and corrosion behavior of Ti in 5 and 10 N sulfuric acid solutions, alone and in the presence of additions of potassium iodide, tetraethylammonium iodide, copper sulfate and nitric acid, in a nitrogen atmosphere, has been investigated by the potentiometric and discharge curve methods, as well as by gravimetric determination of the corrosion losses. Passivation is impeded by raising the temperature. The addition of I<sup>-</sup>, Cu<sup>2+</sup> and HNO<sub>3</sub> retards anodic solution of Ti in H<sub>2</sub>SO<sub>4</sub> and facilitates initial passivation of the metal. It is suggested that the

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ACCESSION NR: AP3000412

passivity of Ti is due to the formation of a passivating adsorption layer on its surface. Orig. art. has: 3 equations, 1 table, 8 figures.

ASSOCIATION: Gosudarstvenny nauchno-issledovatel'skiy i proektniy institut azotnoy promyshlennosti (State Scientific Research and Design Institute for Nitrogen Industry)

SUBMITTED: 22Jan62 DATE ACQ: 19Jun63 ENCL: 00

SUB CODE: 00 NR REF SOV: 011 OTHER: 006

Card 272

BULAKHOV, I.I.; CHEPOMET'YEVA, T.V.; KIMMOV, N.K.; PYRNOV, L.M.

Production of fiber-forming materials on the base of acrylonitrile  
copolymers with N-alkyl derivative amides of citraconic and maleic  
acid. Khim. volok. no.6:17-19 '65. (MIRA 18:12)

I. Institut vysokomolekulyarnykh soyedineniy AN SSSR.  
Submitted October 10, 1964.

L 37203-66 EWT(m)/EAP(j)/T IJP(c) M/RM/JWD  
ACC NR: AP6012416 (A) SOURCE CODE: UR/0183/65/000/006/0017/0019

AUTHOR: Batrakova, T. V.; Sheremet'yeva, T. V.; Kamalov, S. K.;  
Pyrkov, L. M.

ORG: IVS AN SSSR

TITLE: Preparation of fiber-forming materials based on acrylonitrile  
copolymers with N-alkyl amides of citraconic and maleic acids

SOURCE: Khimicheskiye volokna, no. 6, 1965, 17-19

TOPIC TAGS: synthetic fiber, acrylonitrile, copolymerization, chemical reaction, tensile strength

ABSTRACT: New copolymers of acrylonitrile with unsubstituted and with N-substituted monoamides of citraconic and maleic acids were synthesized and characterized. Copolymerizations were in aqueous media using oxidation-reduction initiators. The monoamides copolymerize with acrylonitrile in different molar ratios; their activity is greater than the activity of pure acrylonitrile since resultant copolymers were richer in monoamide than the composition of the initial mixture. Fibers formed from the copolymers were stronger than polyacrylonitrile fibers.

UDC: 677.494.745.32

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L 37203-66

ACC NR: AP6012416

Fibers formed when castor oil was used in the hardening bath had higher strength indices than fibers formed in a 40% aqueous dimethylformamide solution. Greatest strength was obtained in compositions containing 4-5 mol% of the second component, regardless of the substituent at the amide nitrogen. Orig. art. has: 3 tables and 1 figure.

SUB CODE: 07.11/ SUBM DATE: 100ct64/ ORIG REF: 003/ OTH REF: 001

Card 2/2/HCP

L 344-66 EMT(E)/EMT(j)/T LII(s) M/J/JCD/RM  
ACC NR: AP6012720 (A) SOURCE CODE: UR/0190/66/008/004/0732/0735

AUTHOR: Sheremeteva, T. V.; Gusinskaya, V. A.

ORG: Institute of Macromolecular Compounds, AN SSSR (Institut vysokomolekulyarnykh soyedineniy AN SSSR)

TITLE: Preparation of succinamides with a regular structure

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 4, 1966, 732-735

TOPIC TAGS: copolymerization, succinamide, polyamide

ABSTRACT: The migrational copolymerization<sup>1</sup> of succinamides with various diamines<sup>1</sup> was investigated. The reaction of migrational copolymerization proceeds at low temperatures from -10 to 78 C in an aqueous alkali medium with pH = 9-9.5. It is shown that migrational copolymerization of succinamides with diamines can result in homogeneous and mixed regular polysuccinamides with a molecular weight of 15,000 to 20,000. Polysuccinamides were synthesized from hexamethylenedisuccinamide and typed for the first time. The authors thank Ye. I. Pokrovskiy and Ye. F. Fedorova for taking the IR spectrum and the analytical Laboratory of the Institute of Macromolecular Compounds for carrying out analyses. Orig. art. has: 2 tables.

[NT]

SUB CODE: 11, 07/ SUBM DATE: 03May65/ ORIG REF: 003/ OTH REF: 002

Card 1/1 bbf

LYASHENKO, V.D. [deceased]; KOLESOVA, M.B.; ALEXANDR, Kh.L.; SHEREMET'YEVA,  
V.A.

Sulfur-containing derivatives of purines and pyrimidines. Zhur.  
ob. khim. 34 no.8:2752-2756 Ag '64. (MIRA 17:9)

1. Leningradskiy khimiko-farmatsevticheskiy institut.

L 22739-66 EWP(k)/EWP(h)/EMT(d)/EWP(l)/EWP(v)

ACC NR: AP6013621

SOURCE CODE: UR/0105/65/000/009/0088/0088

AUTHOR: Alekseenko, G. V.; Biryukov, V. G.; Borisenco, N. I.; Borushko, V. S.; Kovalev, N. N.; Kostenko, M. P.; Oboleskiy, N. A.; Petrov, G. N.; Rozanov, A. A.; Skidanenko, I. T.; Timofeyev, P. V.; Chilikin, M. G.; Sheremet'yevskiy, N. N.

21

79

ORG: none

TITLE: Honoring the 60th birthday of Professor Andronik Gevondovich Iosif'yan

B

SOURCE: Elektrichestvo, no. 9, 1965, 88

TOPIC TAGS: academic personnel, scientific personnel, automation, electric engineering, servosystem, automatic control

ABSTRACT: 21 July 1965 was the 60th birthday of the eminent Soviet scientist in the field of electrical mechanics and automation, Dr. Techn. Sci., Professor, Member of the AS Armenian SSR, Hero of Socialist Labor, Laureate of the State Prize, A. G. Iosif'yan. His scientific contributions are numerous. During 1931-1934 he developed the theory of the combined synchronous control circuit with AC commutator generator. Subsequently, he invented the contactless selsyn. He was the first Soviet scientist to publish studies of thyratron-based servosystems for the control of electrical machinery. During 1940-1945 he made a major contribution to the theory of electrical machinery and automatic control by publishing studies on the general theory of the elec-

Z

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UDC: 621.3:65.011.56

L 22737-06

ACC NR: AP6013621

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tromechanical amplifier (amplidyne) and power-driven synchronous servosystems. In his 35 years of scientific activity A. G. Iosif'yan has published more than 60 studies on many problems of electrical mechanics and automatic control and has been the author of 24 inventions. A. G. Iosif'yan is the founder and director of the All-Union Order of Labor Red Banner Scientific Research Institute of Electromechanics, and it was on his initiative that branches of this institute have been established in Leningrad, Tomsk, Yerevan, Frunze, Iskra, and Kudinovo. Between 1950 and 1955 he held the elective office of Vice President of the Armenian Academy of Sciences, and since 1955 he has been Editor-in-Chief of the journal Elektrotehnika (Electrical Engineering). He is also the bearer of many other honors. Among other things, he was elected delegate to the 22nd Congress of the CPSU. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 2/2 *do*

*LETTER FROM L.Y. VENKOV*

FILE 1 BOOK REVIEWS

5/25/53

Vsegochnye ob'syedaniya sovetskikh po avtomaticheskii proizvodstvennykh

professorov v Moskvoi i sredstvami voprosa o voprosakh po elektronike i

radioelektronike i avtomaticheskikh protsessakh. Izdatelstvo "Promgiz"

Moskva, 3d, Moscow, 1959

Elektricheskii i avtomaticheskii protsessakh. Izdatelstvo "Promgiz"

(Electric Drive and Automation in Industrial Systems). Transactions of the Con-

frence. Moscow, Sovzgizdat, 1960. 470 p. 11,000 copies printed.

General Eds.: I.I. Petry, A.A. Slobod, and M.G. Chalilin; Eds.: I.I. Sud, and

I.P. Salyev; Tech. Eds.: K.F. Voronin, and G.G. Larionov.

Purpose: The collection of reports is intended for the scientific and technical

personnel of scientific research institutes, plants and schools of higher

education.

CONTENTS. The book is a collection of reports submitted by scientists in workers at

plants, scientific institutes and schools of higher education at the third

Joint All-Union Conference on the Automation of Industrial Processes in Machine

Building and Automated Electric Drives in Industry held in Moscow on

May 12-16, 1959. The Conference was called by the Academy of Sciences USSR, the

Central Planning Commission (CPK), the GNTK SSSR, the Central Committee

of the All-Union Association of Engineers and Technicians (GOST) Committee on Automation and

Industrial Management, and the All-Union Scientific and Technical Committee on Automation and

Technique-Tehnicheskii komitet po avtomaticheskoi upravlenii i prepravlennii

and Preparative Committee on Automatical Electropribor (Scientific

and Research) of the VNIIEF (Institute of Electrical Drives), the MKI (Moscow Institute

of the Academy of Sciences USSR, the IAI (Institute of Automation and Telemechanics)

and the Institute of Mathematics. All USSR Commissions on the Technology of Machine

Building of the Institute of Science and Members of the Academy of Sciences USSR,

would ensure a relatively systematic presentation of theoretical and practical

problems relating to electric drives and automatic controls of industrial mechani-

cals used in various branches of industry. Basic problems of automated electric

drives and their solutions are outlined. The book also contains articles on reac-

tive induction and servomechanisms, and the methods of automation in ship

and aircraft engineering, and to computers intended both for analogical and digi-

tional or linear and nonlinear automatic regulation and control systems. Tech-

nical abbreviations those which have appeared in volume V of NII EG transactions

are mentioned.

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PRINCIPLES OF ELECTRIC DRIVES AND AUTOMATION OF CONTROL

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BARSKIY, S.Z., kand.tekhn.nauk; SHEREMET'YEVSKIY, N.N., doktor tekhn.  
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frequency. Vest.elektrprom. 33 no.12:54-60 D '62.

(MIRA 15:12)

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AID P - 2530

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 14/32

Author : Sheremet'yevskiy, P. P., Eng.

Title : 25 years of operation of the Fergana Heat and Electric Power Plant

Periodical : Elek sta, 6, 41, Je 1955

Abstract : The article describes the development of the region serviced by the Fergana Tets in the 25 years of its operation.

Institution : None

Submitted : No date

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copies (KL, No. 5, 1959, 152)

AUTHOR: Sherenkov, I. A. (Khar'kov)

24-1-9/26

TITLE: On a plane problem of flow of a turbulent current of incompressible liquid. (O ploskoy zadache rastekaniya burnogo potoka neszhinayemoy zhidkosti).

PERIODICAL: Izvestiya Akademii Nauk, Otdeleniye Tekhnicheskikh Nauk, 1958, No.1, pp. 72-78 (USSR).

ABSTRACT: The problem of plane motion of a current of incompressible liquid can be reduced to the solution of the following equations of motion:

$$v_x \frac{\partial v_x}{\partial x} + v_y \frac{\partial v_x}{\partial y} = - g \frac{\partial h}{\partial x} - g f_x, \quad (1.1)$$

$$v_x \frac{\partial v_y}{\partial y} + v_y \frac{\partial v_y}{\partial x} = - g \frac{\partial h}{\partial y} - g f_y$$

where  $f_x$  and  $f_y$  are terms which take into account frictional forces and inclination of the bottom. These equations are obtained assuming hydrostatic distribution of pressure with depth and the independence of the velocity Card 1/6 vector of depth at any point ( $x, y$ ) in the plane of the

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current. The equations of motion together with the continuity equation,

$$v_x \frac{\partial h}{\partial x} + h \frac{\partial v_x}{\partial x} + v_y \frac{\partial h}{\partial y} + h \frac{\partial v_y}{\partial y} = 0 \quad (1.2)$$

form a closed system of three differential equations containing partial derivatives of the first order of the three required functions,  $v_x$ ,  $v_y$  (the components of the velocity vector along the  $x$  and  $y$  axis) and the depth,  $h$ . Solutions of this system were obtained (Refs. 1-3) assuming that the specific energy in the  $xy$  plane is constant,

i.e.:

$$H = h + \frac{v^2}{2g} = \text{const} \quad (1.3)$$

and assuming that

$$\frac{\partial v_x}{\partial y} - \frac{\partial v_y}{\partial x} = 0 . \quad (1.4)$$

Card 2/6 The initial system of equations subject to the condition

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(Eq.1.4) can be reduced to the single differential equation:

$$\left(1 - \frac{v_x^2}{gh}\right) \frac{\partial^2 \phi}{\partial x^2} - 2 \frac{v_x v_y}{gh} \frac{\partial \phi^2}{\partial x \partial y} + \left(1 - \frac{v_y^2}{gh}\right) \frac{\partial^2 \phi}{\partial y^2} = 0 \quad (1.5)$$

where

$$v_x = \frac{\partial \phi}{\partial x}, \quad v_y = \frac{\partial \phi}{\partial y}$$

Eq.(1.5) in the present case will be of the hyperbolic type. The equations of its characteristics will be of the form:

$$\frac{dy}{dx} = \frac{v_x v_y \pm \sqrt{gh(v^2 - gh)}}{v_x^2 - gh} \quad \text{or} \quad \frac{dy}{dx} = \operatorname{tg}(\beta \mp \alpha) \quad (1.6)$$

where the upper signs refer to the characteristics of the first family and the lower refer to the characteristics Card 3/6 of the second family.  $\beta$  denotes the angle between the

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velocity vector and the  $x$  axis and  $\alpha$  the angle between the velocity vector and the characteristic given by:

$$\alpha = \text{arc sin } \frac{\sqrt{gh}}{v} = \text{arc sin } \frac{1}{F} \quad \left( F = \frac{\sqrt{gh}}{v} \right) \quad (1.7)$$

In the present case (Eq.1.6) can be integrated, giving:

$$\beta = \mp \left( \sqrt{3} \text{arc tg} \frac{\text{ctg } \alpha}{\sqrt{3}} + \alpha \right) + \begin{cases} + & 2\xi \\ - & 2\eta \end{cases} \quad (1.8)$$

$$\beta = \mp \left( \sqrt{3} \text{arc tg} \frac{\sqrt{F^2 - 1}}{\sqrt{3}} + \text{arc sin } \frac{1}{F} \right) + \begin{cases} + & 2\xi \\ - & 2\eta \end{cases} \quad (1.9)$$

$\xi$  and  $\eta$  denote integration constants which do not change along corresponding characteristics. They therefore define a net of characteristics (Ref.2) and can be used as arguments in a curvilinear system of coordinates  $\xi, \eta$ . The method described in the present paper consists in finding in the plane  $xy$  of integral lines  $F = \text{const}$  from the initial equations. The net of characteristics

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On a plane problem of flow of a turbulent current of incompressible liquid.

gives a curvilinear system of coordinates  $\xi, \eta$  which changes with changes in the flow. The values of the curvilinear coordinates which are functions of  $x$  and  $y$ , are connected with the current parameters via Eq.(1.8).

Thus:

$$\beta = \xi - \eta, \quad f(\alpha) = \xi + \eta \quad (3.1)$$

where

$$f(\alpha) = \sqrt{3} \operatorname{arc} \operatorname{tg} \frac{\operatorname{ctg} \alpha}{\sqrt{3}} + \alpha = \sqrt{3} \operatorname{arc} \operatorname{tg} \frac{F^2 - 1}{\sqrt{3}} + \operatorname{arc} \sin \frac{1}{F}$$

It follows from Eq.(3.1) that along a line  $F = \text{const}$  the following condition is satisfied:

$$\xi + \eta = \text{const} \quad (3.3)$$

In the region of a simple wave  $F = \text{const}$  will be a straight line characteristic and in the region of interaction of simple waves the line  $F = \text{const}$  will be

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On a plane problem of flow of a turbulent current of incompressible liquid.

the line of intersection of characteristics determined by Eq.(3.3).

There are 4 figures and 6 references, 3 Russian, 1 German, 2 English.

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PHASE I TREASURY IC AND BIBLIOGRAPHIC REPORT

BOOK

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Coverage: A detailed handbook containing technical data on specifications, standards, design and operation of various types of electrical equipment in ferrous metallurgical industries: electric power supply plants and their distributing systems, transforming stations and transmission lines (high and low tension), blast furnace works, rolling mill plants, open-hearth plants, mines, electrical steel smelting and ferroalloy furnaces, sintering plants, coke plants, and electrical transport. Tables and diagrams. Subject index.

Purpose: A handbook for electrotechnical personnel, engineering technicians, machine operators, and planning personnel of metallurgical industries.

Facilities: None.

No. of Russian references: References listed at end of each chapter.

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